

AMENDMENT(S) TO THE CLAIMS

1. (Currently Amended) A parallel optical interconnect for use in a fiber optic system, comprising:

a plurality of first segments of optical fibers extending in a side-by-side arrangement;

a first holder in the form of ~~ribbonizing web material~~ a first discrete body member that maintains a plurality of first terminal portions of the first segments in a first predetermined pitch;

a fiber-fan-out including a plurality of second segments of the optical fibers extending in a diverging arrangement from the plurality of first segments; and

a second holder in the form of a second discrete body member that maintains a plurality of second terminal portions of the second segments in a second predetermined pitch that is greater than the first predetermined pitch.

2 - 10. (Canceled)

11. (Currently Amended) A fiber optic system, comprising:

a plurality of first segments of optical fibers extending in a side-by-side arrangement;

a first holder that maintains a plurality of first terminal portions of the first segments in a first predetermined pitch so that the first terminal portions can each be optically coupled to a corresponding routed optical fiber via a parallel optical connector having the first predetermined pitch;

a fiber-fan-out including a plurality of second segments of the optical fibers extending in a diverging arrangement from the plurality of first segments;

a second holder that maintains a plurality of second terminal portions of the second segments in a second predetermined pitch that is greater than the first predetermined pitch; and

a plurality of optical subassemblies (OSAs) arranged in an array, each OSA being optically coupled to a corresponding one of the second terminal portions of the second segments ; and

the first and second holders being provided by a common housing assembly surrounding the first and second segments of the optical fibers except for the first and second terminal portions.

12 - 20. (Canceled)

21. (Previously Presented) A fiber optic system, comprising:

2 a plurality of first segments of optical fibers extending in a side-by-side arrangement;
a first holder that maintains a plurality of first terminal portions of the first segments in
4 a first predetermined pitch so that the first terminal portions can each be optically coupled to a
corresponding routed optical fiber via a parallel optical connector having the first predetermined
6 pitch;
a fiber-fan-out including a plurality of second segments of the optical fibers extending
8 in a diverging arrangement from the plurality of first segments;
a second holder that maintains a plurality of second terminal portions of the second
10 segments in a second predetermined pitch that is greater than the first predetermined pitch;
the first and second holders being provided by a common housing assembly surrounding
12 the first and second segments of the optical fibers except for the first and second terminal
portions;
14 a plurality of alignment pins that extend from at least one end of the housing assembly;
and
16 a plurality of optical subassemblies (OSAs) arranged in an array, each OSA being
optically coupled to a corresponding one of the second terminal portions of the second segments.

22. (Previously Presented) A fiber optic system, comprising:

2 a plurality of first segments of optical fibers extending in a side-by-side arrangement;
a first holder that maintains a plurality of first terminal portions of the first segments in
4 a first predetermined pitch so that the first terminal portions can each be optically coupled to a
corresponding routed optical fiber via a parallel optical connector having the first predetermined
6 pitch;
a fiber-fan-out including a plurality of second segments of the optical fibers extending
8 in a diverging arrangement from the plurality of first segments;
a second holder that maintains a plurality of second terminal portions of the second
10 segments in a second predetermined pitch that is greater than the first predetermined pitch;

the first and second holders being provided by a common housing assembly surrounding
12 the first and second segments of the optical fibers except for the first and second terminal
portions;

14 a plurality of alignment pins that extend from at least one end of the housing assembly;
and

16 a plurality of ferrules, each secured around a corresponding one of the second terminal
portions of the second segments.